



# HAPPY TRAILS PRODUCTS

## HONDA CRF1000L AFRICA TWIN ENGINE GUARD HTP3-2-5

Thank you for purchasing Happy Trails products. Our products are proudly hand made in Boise Idaho, USA. If you have any questions or concerns about the installation of this product, please contact us directly at 1-800-444-8770 or e-mail [support@happy-trail.com](mailto:support@happy-trail.com).

Before you begin, place the bike on a hard level surface where you have room to work. Lay out the parts included in this kit and compare to the parts list on page 3 of these instructions. If any parts or hardware are missing, contact us immediately at the number or email listed above.

### IMPORTANT!!!!

When installing Happy Trails racks, leave all bolt connections loose until the entire product is installed. Then go back and tighten all connections. We recommend the use of thread locking compound.

**Step 1:** Remove the rear engine mount bolt. There will be a spacer on the right side of the bike that may fall out when this bolt is removed. Make sure to keep track of this spacer as it will be required for reassembly.

*See Figure 1*



Figure 1: Rear Engine Mount Bolt

**Step 2:** Now remove the bottom and rear most bolts from the front engine mount, *See Figure 2*. There is also a spacer on the rear bolt of the front engine mount. Keep track of this spacer as it will be used for reassembly.



Figure 2: Front Engine Mount Bolts



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**Step 3:** Next, Place a 8mm washer on the 8x120mm HHCS. Then slide it through the front mount of the left side guard. Then place the 3/4" OD x 1/2" L spacer on the bolt and thread it through the engine mount.

*See Figure 3*

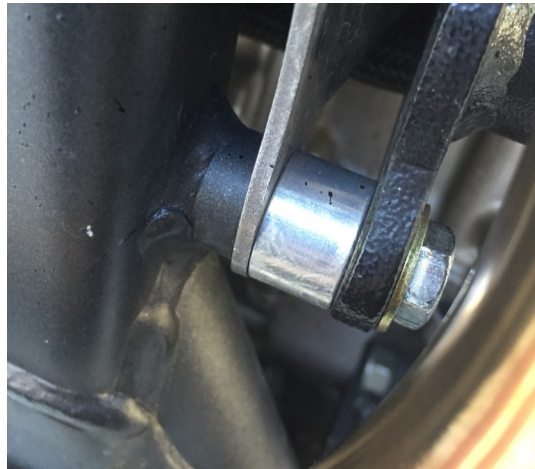


Figure 3: 8x120mm Bolt and Spacer

**Step 4:** Continuing with the left side, place the 8x285mm HHCS bolt through the rear mount of the guard. Then place a 3/4" OD x 1" L Spacer on the bolt and begin to thread it through the rear engine mount. Make sure that the factory spacer is in place before sliding the bolt completely through the mount.

*See Figure 4*



Figure 4: 8x285mm HHCS and Spacer



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Figure 5: 10x120mm Bolt

**Step 5:** Once the most forward and rear bolts are in place, place an 10mm Hardened Flat Washer on the 10x120mm SHCS and begin to run it through the rear bolt hole on the front mount of the guard. Make sure the factory spacer is in place before pushing the bolt completely through the mount.

*See Figure 5*



Figure 6

**Step 6:** Once all three of the bolts have been installed from the left side of the bike, move to the right side. Place the front mount of the right side guard on the bolts that you installed in the front engine mount. It may be easier to have a helping hand for this part to hold the left side guard in place as you mount the right side. Place a 10mm hardened washer and a 10mm Nylock Nut on the 10x120mm bolt. Then place an 8mm Washer and 8mm Unitorque nut on the 8x120mm bolt to hold the front mount together. Do not tighten these bolt until end of installation

*See Figure 6*

**Step 7:** Next, Slide the remaining 3/4" OD x 1" L spacer on the 8x285mm bolt on the right side of the bike, then place the rear mount of the guard on the bolt. Place an 8mm Washer and the remaining 8mm Unitorque nut onto the bolt.

*See Figure 7*



Figure 7





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**Step 8:** Lastly, once you have all the components mounted to the bike, start tightening the Engine Guards down to the bike. Start at the front mount and work your way towards the back of the bike until all bolts are tight

Installation Complete! To ensure that the Engine Guards keep their longevity, check all bolts for quality and tightness before each adventure. Ride safe!

### **Bolt List:**

8x285mm Hardened Bolt	1
8x120mm HHCS	1
10x120mm SHCS	1
8mm Flat Washer	2
10mm Flat Washer Hardened	4
8mm Unitorque Nut	2
10mm Nylock Nut	1
3/4" OD x 1/2" L Spacers	1
3/4" OD x 1" L Spacers	2

### **Hardware List:**

Left and Right Guard